SEQUENCE LISTING

<110> Reed, Guy L.

<120> Composition and Method for Enhancing Fibrinolysis

<130> 0609.4320003

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<141> 2001-10-12

<150> 08/934,000

<151> 1997-09-19

<150> 60/026,356

<151> 1996-09-20

<160> 81

<170> PatentIn version 3.1

<210> 1

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> May be any Amino Acid

<400> 1

Xaa Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val
1 5 10 15

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<400> 2

Asp Ile Gln Met Thr
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<220>

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<223> May be any Amino Acid

<400> 3

Xaa Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val
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<210> 4

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<220>

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<222> (1)..(381)

<223>

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<222> (1)..(60)

<223>

<400> 4

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atg agt gtg ctc act cag gtc ctg gsg ttg ctg ctg ctg tgg ctt aca       48
Met Ser Val Leu Thr Gln Val Leu Xaa Leu Leu Leu Trp Leu Thr
-20                 -15                 -10                 -5

ggt gcc aga tgt gac atc cag atg act cag tct cca gcc tcc cta tct       96
Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser
                1               5                  10

gca tct gtg gga gaa act gtc acc atc aca tgt cga gca agt ggg aat      144
Ala Ser Val Gly Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn
        15                  20                  25

att cac aat tat tta gca tgg tat cag cag aaa cag gga aaa tct cct      192
Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro
    30                  35                  40

cag ctc ctg gtc tat aat gca aaa acc tta gca gat ggt gtg cca tca      240
```

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Gln Leu Leu Val Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser
 45                  50                  55                  60

agg ttc agt ggc agt gga tca gga aca caa ttt tct ctc agg atc aac      288
Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Ser Leu Arg Ile Asn
                 65                  70                  75

agc ctg cag cct gaa gat ttt ggg agt cat tac tgt caa cat ttt tgg      336
Ser Leu Gln Pro Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp
            80                  85                  90

acc act ccg tgg acg ttc ggt gga ggc acc aag ctg gaa atc aaa          381
Thr Thr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
        95                 100                 105
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<210> 5

<211> 127

<212> PRT

<213> Artificial Sequence

<220>

<221> MISC_FEATURE

<222> (9)..(9)

<223> May be either Gly or Ala

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 5

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Met Ser Val Leu Thr Gln Val Leu Xaa Leu Leu Leu Trp Leu Thr
-20                 -15                 -10                  -5

Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser
                  1               5                  10

Ala Ser Val Gly Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn
         15                  20                  25

Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro
     30                  35                  40

Gln Leu Leu Val Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser
 45                  50                  55                  60
```

Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Ser Leu Arg Ile Asn
65 70 75

Ser Leu Gln Pro Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp
80 85 90

Thr Thr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
95 100 105

<210> 6

<211> 381

<212> DNA

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<220>

<221> CDS

<222> (1)..(381)

<223>

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<222> (1)..(60)

<223>

<400> 6

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Met Ser Val Leu Thr Gln Val Leu Gly Leu Leu Leu Trp Leu Thr
-20 -15 -10 -5

ggt gcc aga tgt gac atc cag atg act cag tct cca gcc tcc cta tct 96
Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser
1 5 10

gca tct gtg gga gaa act gtc acc gtc aca tgt cga gca agt ggg aat 144
Ala Ser Val Gly Glu Thr Val Thr Val Thr Cys Arg Ala Ser Gly Asn

```
         15                  20                  25

att cac aat tat tta gca tgg tat cag cag aaa cag gga aaa tct cct      192
Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro
     30                  35                  40

cag ctc ctg gtc tat aat gca aga acc tta gca gat ggt gtg cca tca      240
Gln Leu Leu Val Tyr Asn Ala Arg Thr Leu Ala Asp Gly Val Pro Ser
 45                  50                  55                  60

agg ttc agt ggc agt gga tca gga aca caa tat tct ctc aag atc aac      288
Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn
                 65                  70                  75

agc ctg cag cct gaa gat ttt ggg agt tat tac tgt caa cat ttt tgg      336
Ser Leu Gln Pro Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Phe Trp
             80                  85                  90

agt aat ccg tgg acg ttc ggt gga ggc acc aag ctg gaa atc aaa          381
Ser Asn Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
         95                  100                 105
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<210> 7

<211> 127

<212> PRT

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 7

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Met Ser Val Leu Thr Gln Val Leu Gly Leu Leu Leu Leu Trp Leu Thr
-20                 -15                 -10                  -5

Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser
                  1               5                  10

Ala Ser Val Gly Glu Thr Val Thr Val Thr Cys Arg Ala Ser Gly Asn
         15                  20                  25

Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro
     30                  35                  40

Gln Leu Leu Val Tyr Asn Ala Arg Thr Leu Ala Asp Gly Val Pro Ser
 45                  50                  55                  60
```

Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn
65 70 75

Ser Leu Gln Pro Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Phe Trp
80 85 90

Ser Asn Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
95 100 105

<210> 8

<211> 381

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<220>

<221> CDS

<222> (1)..(381)

<223>

<220>

<221> sig_peptide

<222> (1)..(60)

<223>

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atg agt gtg ctc act cag gtc ctg gcg ttg ctg ctg ctg tgg ctt aca 48
Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Leu Trp Leu Thr
-20 -15 -10 -5

ggt gcc aga tgt gac atc cag atg act cag tct cca gcc tcc cta tct 96
Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser
1 5 10

gca tct gtg gga gaa act gtc acc atc aca tgt cga gca agt ggg aat 144
Ala Ser Val Gly Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn
15 20 25

```
att cac aat tat tta gca tgg tat cag cag aaa cag gga aaa tct cct      192
Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro
     30                  35                  40

caa ctc ctg gtc tat aat gca aaa acc tta gca gat ggt gtg cca tca      240
Gln Leu Leu Val Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser
 45                  50                  55                  60

agg ttc agt ggc agt gga tca gga aca caa ttt tct ctc aag atc aac      288
Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Ser Leu Lys Ile Asn
                 65                  70                  75

agc ctg cag cct gaa gat ttt ggg agt cat tac tgt caa cat ttt tgg      336
Ser Leu Gln Pro Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp
             80                  85                  90

acc act ccg tgg acg ttc ggt gga ggc acc aag ctg gaa atc aaa          381
Thr Thr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
         95                  100                 105
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<210> 9

<211> 127

<212> PRT

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 9

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Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Trp Leu Thr
-20                 -15                 -10                  -5

Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser
                  1               5                  10

Ala Ser Val Gly Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn
         15                  20                  25

Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro
     30                  35                  40

Gln Leu Leu Val Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser
 45                  50                  55                  60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Ser Leu Lys Ile Asn
```

65 70 75

Ser Leu Gln Pro Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp
80 85 90

Thr Thr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
95 100 105

<210> 10

<211> 414

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<220>

<221> CDS

<222> (1)..(414)

<223>

<220>

<221> sig_peptide

<222> (1)..(57)

<223>

<400> 10

atg gmt tgg gtg tgg amc ttg cta ttc ctg atg gca gct gcc caa agt 48
Met Xaa Trp Val Trp Xaa Leu Leu Phe Leu Met Ala Ala Ala Gln Ser
-15 -10 -5

ctc caa gca cag atc cag ttg gtg cag tct gga cct gag ctg aag aag 96
Leu Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys
1 5 10

cct gga gaa aca gtc aag atc tcc tgc aag gcc tct ggg tat acc ttc 144
Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe
15 20 25

```
aca aac tat gga atg aac tgg gtg aag cag gct cca gga aag ggt tta      192
Thr Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu
 30                  35                  40                  45

aag tgg atg ggc tgg ata aac acc aag agt gga gag cca aca tat gct      240
Lys Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala
                 50                  55                  60

gaa gag ttc aag gga cgg ttt gtc ttc tct ttg gaa acc tct gcc agc      288
Glu Glu Phe Lys Gly Arg Phe Val Phe Ser Leu Glu Thr Ser Ala Ser
             65                  70                  75

act gcc cat ttg cag atc aag aat ttc aga aat gag gac acg gct aca      336
Thr Ala His Leu Gln Ile Lys Asn Phe Arg Asn Glu Asp Thr Ala Thr
         80                  85                  90

tat ttc tgt gca aga tgg gta cct ggg acc tat gct atg gac tac tgg      384
Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp
     95                 100                 105

ggt caa gga acc tca gtc acc gtc tcc tca                              414
Gly Gln Gly Thr Ser Val Thr Val Ser Ser
110                 115
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<210> 11

<211> 138

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<213> Artificial Sequence

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> May be either Asp or Ala

<220>

<221> MISC_FEATURE

<222> (6)..(6)

<223> May be either Asn or Thr

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 11

Met Xaa Trp Val Trp Xaa Leu Leu Phe Leu Met Ala Ala Ala Gln Ser

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                -15                 -10                 -5

Leu Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys
              1               5                  10

Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe
     15                  20                  25

Thr Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu
 30                  35                  40                  45

Lys Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala
                 50                  55                  60

Glu Glu Phe Lys Gly Arg Phe Val Phe Ser Leu Glu Thr Ser Ala Ser
             65                  70                  75

Thr Ala His Leu Gln Ile Lys Asn Phe Arg Asn Glu Asp Thr Ala Thr
         80                  85                  90

Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp
     95                  100                 105

Gly Gln Gly Thr Ser Val Thr Val Ser Ser
110                 115
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<210> 12

<211> 414

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<220>

<221> CDS

<222> (1)..(414)

<223>

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<222> (1)..(57)

<223>

<400> 12

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atg gmt tgg gtg tgg amc ttg cta ttc ctg atg gca gct gcc caa agt       48
Met Xaa Trp Val Trp Xaa Leu Leu Phe Leu Met Ala Ala Ala Gln Ser
               -15                 -10                 -5
atc caa gca cag atc cag ttg gtg cag tct gga cct gag ctg aag aag       96
Ile Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys
            1               5                  10

cct gga gag aca gtc aag atc tcc tgc aag gct tct ggg tat acc ttc      144
Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe
     15                  20                  25

aca aag tat gga atg aac tgg gtg aag cag gct cca gga aag ggt tta      192
Thr Lys Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu
 30                  35                  40                  45

aag tgg atg ggc tgg ata aac acc aac agt gga gag cca aca tat gct      240
Lys Trp Met Gly Trp Ile Asn Thr Asn Ser Gly Glu Pro Thr Tyr Ala
                 50                  55                  60

gaa gag ttc aag gga cgg ttt gcc ttc tct ttg gaa acc tct gcc agc      288
Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser
             65                  70                  75

act gcc tat ttg cag atc aac aac ctc aaa aat gag gac tcg gct aca      336
Thr Ala Tyr Leu Gln Ile Asn Asn Leu Lys Asn Glu Asp Ser Ala Thr
         80                  85                  90

tat ttc tgt gca aga tgg gta cct ggg acc tat gct atg gac tac tgg      384
Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp
     95                  100                 105

ggt caa gga acc tca gtc acc gtc tcc tca                              414
Gly Gln Gly Thr Ser Val Thr Val Ser Ser
110                 115
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<210> 13

<211> 138

<212> PRT

<213> Artificial Sequence

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> May be either Asp or Ala

<220>

<221> MISC_FEATURE

<222> (6)..(6)

<223> May be either Asn or Thr

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 13

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Met Xaa Trp Val Trp Xaa Leu Leu Phe Leu Met Ala Ala Ala Gln Ser
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Ile Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys
             1               5                  10

Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe
     15                  20                  25

Thr Lys Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu
 30                  35                  40                  45

Lys Trp Met Gly Trp Ile Asn Thr Asn Ser Gly Glu Pro Thr Tyr Ala
                 50                  55                  60

Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser
             65                  70                  75

Thr Ala Tyr Leu Gln Ile Asn Asn Leu Lys Asn Glu Asp Ser Ala Thr
         80                  85                  90

Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp
     95                  100                 105

Gly Gln Gly Thr Ser Val Thr Val Ser Ser
110                 115
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<210> 14

<211> 414

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<220>

<221> CDS

<222> (1)..(414)

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<222> (1)..(57)

<223>

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atg gmt tgg gtg tgg amc ttg cta ttc ctg atg gca gct gcc caa agt       48
Met Xaa Trp Val Trp Xaa Leu Leu Phe Leu Met Ala Ala Ala Gln Ser
               -15                 -10                  -5

atc caa gca cag atc cag ttg gtg cag tct gga cct gag ctg aag aag       96
Ile Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys
            1               5                  10

cct gga gaa aca gtc aag atc tcc tgc aag gct tct ggg tat acc ttc      144
Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe
     15                  20                  25

aca aac tat gga atg aac tgg gtg aag cag gct cca gga aag ggt tta      192
Thr Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu
 30                  35                  40                  45

aag tgg atg ggc tgg ata aac acc aag agt gga gag cca aca tat gct      240
Lys Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala
                 50                  55                  60

gaa gag ttc aag gga cgg ttt gcc ttc tct ttg gaa acc tct gcc agc      288
Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser
            65                  70                  75

act gcc aat ttg cag atc aag aac ctc aaa aat gag gac acg gct aca      336
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```
Thr Ala Asn Leu Gln Ile Lys Asn Leu Lys Asn Glu Asp Thr Ala Thr
         80                  85                  90

tat ttc tgt gca aga tgg gta cct ggg acc tat gcc atg gac tac tgg      384
Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp
     95                 100                 105

ggt caa gga acc tca gtc acc gtc tcc tca                              414
Gly Gln Gly Thr Ser Val Thr Val Ser Ser
110                 115
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<210> 15

<211> 138

<212> PRT

<213> Artificial Sequence

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<221> MISC_FEATURE

<222> (2)..(2)

<223> May be either Asp or Ala

<220>

<221> MISC_FEATURE

<222> (6)..(6)

<223> May be either Asn or Thr

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 15

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Met Xaa Trp Val Trp Xaa Leu Leu Phe Leu Met Ala Ala Ala Gln Ser
               -15                 -10                  -5

Ile Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys
             1               5                  10

Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe
     15                  20                  25

Thr Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu
 30                  35                  40                  45
```

Lys Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala
50 55 60

Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser
65 70 75

Thr Ala Asn Leu Gln Ile Lys Asn Leu Lys Asn Glu Asp Thr Ala Thr
80 85 90

Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp
95 100 105

Gly Gln Gly Thr Ser Val Thr Val Ser Ser
110 115

<210> 16

<211> 411

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<220>

<221> CDS

<222> (31)..(411)

<223>

<220>

<221> sig_peptide

<222> (31)..(90)

<223>

<400> 16
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Met Ser Val Leu Thr Gln Val Leu

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                                    -20                 -15

gcg ttg ctg ctg ctg tgg ctt aca ggt gcc aga tgt gac atc cag atg      102
Ala Leu Leu Leu Leu Trp Leu Thr Gly Ala Arg Cys Asp Ile Gln Met
        -10                 -5                  1

act cag tct cca tcc tcc cta tct gca tct gtg gga gac aga gtc acc      150
Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr
  5                 10                  15                  20

atc aca tgt cga gca agt ggg aat att cac aat tat tta gca tgg tat      198
Ile Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr Leu Ala Trp Tyr
                25                  30                  35

cag cag aaa cag gga aaa tct cct caa ctc ctg gtc tat aat gca aaa      246
Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val Tyr Asn Ala Lys
            40                  45                  50

acc tta gca agt ggt gtg cca tca agg ttc agt ggc agt gga tca gga      294
Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly
        55                  60                  65

aca gat ttt act ctc acc atc agc agc ctg cag cct gaa gat ttt ggg      342
Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Gly
    70                  75                  80

agt cat tac tgt caa cat ttt tgg acc act ccg tgg acg ttc ggt gga      390
Ser His Tyr Cys Gln His Phe Trp Thr Thr Pro Trp Thr Phe Gly Gly
 85                  90                  95                  100

ggc acc aag ctg gaa atc aaa                                         411
Gly Thr Lys Leu Glu Ile Lys
                105
```

<210> 17

<211> 127

<212> PRT

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 17

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Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Trp Leu Thr
-20                 -15                 -10                 -5

Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
                  1               5                  10
```

```
Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gly Asn
         15                  20                  25

Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro
     30                  35                  40

Gln Leu Leu Val Tyr Asn Ala Lys Thr Leu Ala Ser Gly Val Pro Ser
45                   50                  55                  60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
                 65                  70                  75

Ser Leu Gln Pro Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp
             80                  85                  90

Thr Thr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
         95                  100                 105
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<210> 18

<211> 417

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<220>

<221> CDS

<222> (1)..(417)

<223>

<220>

<221> sig_peptide

<222> (1)..(60)

<223>

<400> 18

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atg agt gtg ctc act cag gtc ctg gcg ttg ctg ctg ctg tgg ctt aca       48
Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Leu Trp Leu Thr
-20                 -15                 -10                  -5

ggt gcc aga tgt cag atc cag ttg gtg cag tct gga tct gag ctg aag       96
Gly Ala Arg Cys Gln Ile Gln Leu Val Gln Ser Gly Ser Glu Leu Lys
                 1               5                  10

aag cct gga gcc tca gtc aag atc tcc tgc aag gct tct ggg tat acc      144
Lys Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr
         15                  20                  25

ttc aca aac tat gga atg aac tgg gtg cga cag gct cca gga caa ggt      192
Phe Thr Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly
     30                  35                  40

tta gag tgg atg ggc tgg ata aac acc aag agt gga gag cca aca tat      240
Leu Glu Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr
 45                  50                  55                  60

gct gaa gag ttc aag gga cgg ttt gtc ttc tct ttg gac acc tct gtc      288
Ala Glu Glu Phe Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val
                 65                  70                  75

acc act gcc tat ttg cag atc agc agc ctc aaa gct gag gac acg gct      336
Thr Thr Ala Tyr Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala
             80                  85                  90

gtg tat ttc tgt gca aga tgg gta cct ggg acc tat gcc atg gac tac      384
Val Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr
         95                  100                 105

tgg ggt caa gga acc acg gtc acc gtc tcc tca                          417
Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
    110                 115
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<210> 19

<211> 139

<212> PRT

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 19

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-20                 -15                 -10                  -5
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Gly Ala Arg Cys Gln Ile Gln Leu Val Gln Ser Gly Ser Glu Leu Lys
                  1               5                  10

Lys Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr
         15                  20                  25

Phe Thr Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly
     30                  35                  40

Leu Glu Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr
 45                  50                  55                  60

Ala Glu Glu Phe Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val
                 65                  70                  75

Thr Thr Ala Tyr Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala
             80                  85                  90

Val Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr
         95                  100                 105

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
    110                 115
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<210> 20

<211> 447

<212> DNA

<213> Artificial Sequence

<220>

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<221> CDS

<222> (31)..(447)

<223>

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<221> sig_peptide

<222> (31)..(90)

<223>

<400> 20

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                                Met Ser Val Leu Thr Gln Val Leu
                                -20                 -15

gcg ttg ctg ctg ctg tgg ctt aca ggt gcc aga tgt cag atc cag ttg      102
Ala Leu Leu Leu Leu Trp Leu Thr Gly Ala Arg Cys Gln Ile Gln Leu
        -10                 -5                  1

gtg cag tct gga gct gag gtg aag aag cct gga gcc tca gtc aag atc      150
Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Ile
  5                 10                  15                  20

tcc tgc aag gct tct ggg tat acc ttc aca aac tat gga atg aac tgg      198
Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr Gly Met Asn Trp
                25                  30                  35

gtg cga cag gct cca gga caa ggt tta gag tgg atg ggc tgg ata aac      246
Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Trp Ile Asn
            40                  45                  50

acc aag agt gga gag cca aca tat gct gaa gag ttc aag gga cgg ttt      294
Thr Lys Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe Lys Gly Arg Phe
        55                  60                  65

acc ttc acc ttg gac acc tct acg agc act gcc tat ttg gag atc agg      342
Thr Phe Thr Leu Asp Thr Ser Thr Ser Thr Ala Tyr Leu Glu Ile Arg
    70                  75                  80

agc ctc aga tct gac gac acg gct gtg tat ttc tgt gca aga tgg gta      390
Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys Ala Arg Trp Val
85                  90                  95                  100

cct ggg acc tat gcc atg gac tac tgg ggt caa gga acc acg gtc acc      438
Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Thr Val Thr
                105                 110                 115

gtc tcc tca                                                         447
Val Ser Ser
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<210> 21

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 21

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Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Leu Trp Leu Thr
-20                 -15                 -10                  -5

Gly Ala Arg Cys Gln Ile Gln Leu Val Gln Ser Gly Ala Glu Val Lys
                  1               5                  10

Lys Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr
         15                  20                  25

Phe Thr Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly
     30                  35                  40

Leu Glu Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr
 45                  50                  55                  60

Ala Glu Glu Phe Lys Gly Arg Phe Thr Phe Thr Leu Asp Thr Ser Thr
                 65                  70                  75

Ser Thr Ala Tyr Leu Glu Ile Arg Ser Leu Arg Ser Asp Asp Thr Ala
             80                  85                  90

Val Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr
         95                  100                 105

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
    110                 115
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<210> 22

<211> 33

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

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<221> MISC_FEATURE

<222> (1)..(6)

<223> May be any Nucleotide

<400> 22
nnnnnngaat tcactggatg gtgggaagat gga 33

<210> 23

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<220>

<221> MISC_FEATURE

<222> (1)..(6)

<223> May be any Nucleotide

<400> 23
nnnnnngaat tcayctccac acacaggrrc cagtggatag ac 42

<210> 24

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 24
actagtcgac atgagtgtgc tcactcaggt cctggsgttg 40

<210> 25

<211> 88

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 25
tagggagacc caagcttggt accaatttaa attgatatct ccttaggtct cgagtctcta 60

gataaccggt caatcgattg ggattctt 88

<210> 26

<211> 88

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 26
gacactatag aatagggccc ttccgcggtt ggatccaaca cgtgaagcta gcaagcggcc 60

gcaagaattc caatcgattg accggtta 88

<210> 27

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 27
gatctgctag cccgggtgac ctgaggcgcg cctttggcgc c 41

<210> 28

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 28
gatcggcgcc aaaggcgcgc cgcaggtcac ccgggctagc a 41

<210> 29

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 29
ccgggcctct caaaaaaggg aaaaaaagca tg 32

<210> 30

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 30
ctttttttcc ctttttttgag aggc 24

<210> 31

<211> 74

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 31
cgcgccggct tcgaatagcc agagtaacct ttttttttaa ttttatttta ttttatttt 60

gagatggagt ttgg 74

<210> 32

<211> 72

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 32
cgccaaactc catctcaaaa ataaaataaa ataaaattaa aaaaaaaggt tactctggct 60

attcgaagcc gg 72

<210> 33

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 33
atcgatgcta gcaccaaggg ccca 24

<210> 34

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 34
ctcgaggggt caccacgctg ctga 24

<210> 35

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 35
aacagctatg accatgatta c 21

<210> 36

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 36
cacccagcct gtgcctgcct g 21

<210> 37

<211> 30

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 37
cgattggaat tcttgcggcc gcttgctagc 30

<210> 38

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 38
cttgcggccg cttgctagca tggattgggt gtggaacttg ctattcctga tggcagctgc 60

ccaaagtatc caagcacaga 80

<210> 39

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 39
cttgactgtt tctccaggct tcttcagctc aggtccagac tgcaccaact ggatctgtgc 60

ttggatactt tgggcagctg 80

<210> 40

<211> 80

<212> DNA

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<223> Alpha-2 Antiplasmin Antibody

<400> 40
ctgaagaagc ctggagaaac agtcaagatc tcctgcaagg cttctgggta taccttcaca 60

aactatggaa tgaactgggt 80

<210> 41

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 41
tcttggtgtt tatccagccc atccacttta aacccttcc tggagcctgc ttcacccagt 60

tcattccata gtttgtgaag 80

<210> 42

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 42
agtggatggg ctggataaac accaagagtg gagagccaac atatgctgaa gagttcaagg 60

gacggtttgc cttctctttg 80

<210> 43

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 43
tcctcatttt tgaggttctt gatctgcaaa ttggcagtgc tggcagaggt ttccaaagag 60

aaggcaaacc gtcccttgaa 80

<210> 44

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 44
gcagatcaag aacctcaaaa atgaggacac ggctacatat ttctgtgcaa gatgggtacc 60

tgggacctat gccatggact 80

<210> 45

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 45
tgggcccttg gtgctagctg aggagacggt gactgaggtt ccttgacccc agtagtccat 60

ggcataggtc ccaggtaccc 80

<210> 46

<211> 29

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 46
gggaagacgg atgggccctt ggtgctagc 29

<210> 47

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 47
atttaaattg atatctcctt aggtctcgag 30

<210> 48

<211> 79

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 48
atttaaattg atatctcctt aggtctcgag atgagtgtgc tcactcaggt cctggcgttg 60

ctgctgctgt ggcttacag 79

<210> 49

<211> 78

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 49
agatgcagat agggaggctg gagactgagt catctggatg tcacatctgg cacctgtaag 60

ccacagcagc agcaacgc 78

<210> 50

<211> 78

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 50
gtctccagcc tccctatctg catctgtggg agaaactgtc accatcacat gtcgagcaag 60

tgggaatatt cacaatta 78

<210> 51

<211> 78

<212> DNA

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<223> Alpha-2 Antiplasmin Antibody

<400> 51
tatagaccag gagctgagga gattttccct gtttctgctg ataccatgct aaataattgt 60

gaatattccc acttgctc 78

<210> 52

<211> 78

<212> DNA

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<223> Alpha-2 Antiplasmin Antibody

<400> 52
aaatctcctc agctcctggt ctataatgca aaaaccttag cagatggtgt gccatcaagg 60

ttcagtggca gtggatca 78

<210> 53

<211> 78

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 53
ctcccaaaat cttcaggctg caggctgttg atcctgagag aaaattgtgt tcctgatcca 60

ctgccactga accttgat 78

<210> 54

<211> 78

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 54
gcctgcagcc tgaagatttt gggagtcatt actgtcaaca tttttggacc actccgtgga 60

cgttcggtgg aggcacca 78

<210> 55

<211> 81

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 55
ttccaatcga ttgaccggtt atctagagac tcgagactta cgtttgattt ccagcttggt 60

gcctccaccg aacgtccacg g 81

<210> 56

<211> 30

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 56
tcgattgacc ggttatctag agactcgaga 30

<210> 57

<211> 80

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 57
cttgcggccg cttgctagca tgagtgtgct cactcaggtc ctggcgttgc tgctgctgtg 60

gcttacaggt gccagatgtc 80

<210> 58

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 58
gactgaggct ccaggcttct tcagctcaga tccagactgc accaactgga tctgacatct 60

ggcacctgta agccacagca 80

<210> 59

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 59
gagctgaaga agcctggagc ctcagtcaag atctcctgca aggcttctgg gtataccttc 60

acaaactatg gaatgaactg 80

<210> 60

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 60
tggtgtttat ccagcccatc cactctaaac cttgtcctgg agcctgtcgc acccagttca 60

ttccatagtt tgtgaaggta 80

<210> 61

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 61
tagagtggat gggctggata aacaccaaga gtggagagcc aacatatgct gaagagttca 60

agggacggtt tgtcttctct 80

<210> 62

<211> 80

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 62
tcagctttga ggctgctgat ctgcaaatag gcagtgctga cagaggtgtc caaagagaag 60

acaaaccgtc ccttgaactc 80

<210> 63

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 63
tttgcagatc agcagcctca aagctgagga cacggctgtg tatttctgtg caagatgggt 60

acctgggacc tatgccatgg 80

<210> 64

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 64
gcccttggtg ctagctgagg agacggtgac cgtggttcct tgaccccagt agtccatggc 60

ataggtccca ggtacccatc 80

<210> 65

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 65
tgctgtggct tacaggtgcc agatgtcaga tccagttggt gcagtctgga gctgaggtga 60

agaagcctgg agcctcagtc 80

<210> 66

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 66
tagagtggat gggctggata aacaccaaga gtggagagcc aacatatgct gaagagttca 60

agggacggtt taccttcacc 80

<210> 67

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 67
tcagatctga ggctcctgat ctccaaatag gcagtgctcg tagaggtgtc caaggtgaag 60

gtaaaccgtc ccttgaactc 80

<210> 68

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 68
tttggagatc aggagcctca gatctgacga cacggctgtg tatttctgtg caagatgggt 60

acctgggacc tatgccatgg 80

<210> 69

<211> 78

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 69
agatgcagat agggaggatg gagactgagt catctggatg tcacatctgg cacctgtaag 60

ccacagcagc agcaacgc 78

<210> 70

<211> 78

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 70
gtctccatcc tccctatctg catctgtggg agacagagtc accatcacat gtcgagcaag 60

tgggaatatt cacaatta 78

<210> 71

<211> 78

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 71
aaatctcctc aactcctggt ctataatgca aaaaccttag caagtggtgt gccatcaagg 60

ttcagtggca gtggatca 78

<210> 72

<211> 78

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 72
ctcccaaaat cttcaggctg caggctgctg atggtgagag taaaatctgt tcctgatcca 60

ctgccactga accttgat 78

<210> 73

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 73

Tyr Pro Arg Ser Ile Tyr Ile Arg Arg Arg His Pro Ser Pro Ser Leu
1 5 10 15

Thr Thr

<210> 74

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 74

Gly Gly Ser Gly Ser Gly Gly Ser Gly Ser Gly Gly Ser Gly Ser
1 5 10 15

<210> 75

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

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<220>

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<222> (21)..(21)

<223> May be any Amino Acid

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<222> (52)..(52)

<223> May be any Amino Acid

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<222> (71)..(71)

<223> May be any Amino Acid

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<222> (74)..(74)

<223> May be any Amino Acid

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<222> (86)..(86)

<223> May be any Amino Acid

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<222> (93)..(93)

<223> May be any Amino Acid

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<222> (94)..(94)

<223> May be any Amino Acid

<400> 75

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Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly
1               5                   10                  15

Glu Thr Val Thr Xaa Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr
            20                  25                  30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val
        35                  40                  45

Tyr Asn Ala Xaa Thr Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Gln Xaa Ser Leu Xaa Ile Asn Ser Leu Gln Pro
65                  70                  75                  80

Glu Asp Phe Gly Ser Xaa Tyr Cys Gln His Phe Trp Xaa Xaa Pro Trp
                85                  90                  95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
            100                 105
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<210> 76

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

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<220>

<221> MISC_FEATURE

<222> (74)..(74)

<223> May be any Amino Acid

<400> 76

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Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly
1               5                   10                  15

Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr
            20                  25                  30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val
        35                  40                  45

Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Gln Phe Ser Leu Xaa Ile Asn Ser Leu Gln Pro
65                  70                  75                  80

Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp Thr Thr Pro Trp
                85                  90                  95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
            100                 105
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<210> 77

<211> 107

<212> PRT

<213> Artificial Sequence

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<220>

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<222> (9)..(9)

<223> May be any Amino Acid

<220>

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<222> (17)..(17)

<223> May be any Amino Acid

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<223> May be any Amino Acid

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<222> (93)..(93)

<223> May be any Amino Acid

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<222> (94)..(94)

<223> May be any Amino Acid

<400> 77

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Asp Ile Gln Met Thr Gln Ser Pro Xaa Ser Leu Ser Ala Ser Val Gly
1               5                  10                  15

Xaa Xaa Val Thr Xaa Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr
            20                  25                  30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val
        35                  40                  45

Tyr Asn Ala Xaa Thr Leu Ala Xaa Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Xaa Xaa Xaa Leu Xaa Ile Xaa Ser Leu Gln Pro
65                  70                  75                  80

Glu Asp Phe Gly Ser Xaa Tyr Cys Gln His Phe Trp Xaa Xaa Pro Trp
                85                  90                  95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
            100                 105
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<210> 78

<211> 119

<212> PRT

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<222> (9)..(9)

<223> May be any Amino Acid

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<222> (82)..(82)

<223> May be any Amino Acid

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Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
        35                  40                  45

Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe
    50                  55                  60
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Lys Gly Arg Phe Xaa Phe Xaa Leu Asp Thr Ser Xaa Ser Thr Ala Tyr
65 70 75 80

Leu Xaa Ile Xaa Ser Leu Xaa Xaa Xaa Asp Thr Ala Val Tyr Phe Cys
85 90 95

Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
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Thr Thr Val Thr Val Ser Ser
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Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met
35 40 45

Gly Trp Ile Asn Thr Xaa Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe
50 55 60

Lys Gly Arg Phe Xaa Phe Ser Leu Glu Thr Ser Ala Ser Thr Ala Xaa
65 70 75 80

Leu Gln Ile Xaa Asn Xaa Xaa Asn Glu Asp Xaa Ala Thr Tyr Phe Cys
85 90 95

Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Ser Val Thr Val Ser Ser
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Thr Val Lys Ile Ser Cys Xaa Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
            20                  25                  30

Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met
        35                  40                  45

Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe
    50                  55                  60
```

Lys Gly Arg Phe Xaa Phe Ser Leu Glu Thr Ser Ala Ser Thr Ala Xaa
65 70 75 80

Leu Gln Ile Lys Asn Xaa Xaa Asn Glu Asp Thr Ala Thr Tyr Phe Cys
85 90 95

Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Ser Val Thr Val Ser Ser
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Xaa Val Lys Ile Ser Cys Xaa Ala Ser Gly Tyr Thr Phe Thr Xaa Tyr
            20                  25                  30

Gly Met Asn Trp Val Xaa Gln Ala Pro Gly Xaa Gly Leu Xaa Trp Met
        35                  40                  45

Gly Trp Ile Asn Thr Xaa Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe
    50                  55                  60

Lys Gly Arg Phe Xaa Phe Xaa Leu Xaa Thr Ser Xaa Ser Thr Ala Xaa
65                  70                  75                  80

Leu Xaa Ile Xaa Xaa Xaa Xaa Xaa Xaa Asp Xaa Ala Xaa Tyr Phe Cys
                85                  90                  95

Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Xaa Val Thr Val Ser Ser
        115
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